

CRF Errors Corrected by the STIC Systems Branch

O/R 0260

Serial Number: 09/441,857

CRF Processing Date: 12/9/99
 Edited by: MC
 Verified by: MC (STIC staff)

- ENTERED
- ✓
- ☐ Changed a file from non-ASCII to ASCII
 - ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
 - ☐ Edited a format error in the Current Application Data section, specifically: _____
 - ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
 - ☐ Added the mandatory heading and subheadings for "Current Application Data".
 - ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
 - ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
 - ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
 - ☒ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 25
 - ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
 - ☐ Inserted colons after headings/subheadings. Headings edited included: _____
 - ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
 - ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.
 - ☐ Inserted mandatory headings, specifically: _____
 - ☐ Corrected an obvious error in the response, specifically: _____
 - ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
 - ☐ Corrected an error in the Number of Sequences field, specifically: _____
 - ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
 - ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
 - ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95

Input Set: I441857.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

1	<110> APPLICANT: Duffy, Hao-Peng Xu	
2	Shan, Ji-dong	
3	Yuan, Li-ming	
4	Dudman, Daniel	
5	Calabro, Anthony	
6	<120> TITLE OF INVENTION: Identification of Differentially Methylated	
7	Multiple Drug Resistance Loci	
8	<130> FILE REFERENCE: 52494/2202	
9	<140> CURRENT APPLICATION NUMBER: US/09/441,857	
10	<141> CURRENT FILING DATE: 1999-11-18	
11	<150> EARLIER APPLICATION NUMBER: US 60/108,994	
12	<151> EARLIER FILING DATE: 1998-11-08	
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27	<220> FEATURE:	
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33	<212> TYPE: DNA	
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36	<223> OTHER INFORMATION: Synthetic adapter	
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42	<213> ORGANISM: Artificial Sequence	
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44	<223> OTHER INFORMATION: Synthetic adapter	

Input Set: I441857.RAW

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58 <213> ORGANISM: Artificial Sequence
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73                                     1
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75     Gly Gly Asp Phe Gly Asn Pro Leu Arg Lys Phe Lys Leu Val Phe Leu
76         5                10                15
77     ggg gag caa agc gtt gca aag aca tct ttg atc acc aga ttc agg tat      152
78     Gly Glu Gln Ser Val Ala Lys Thr Ser Leu Ile Thr Arg Phe Arg Tyr
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84     Ser Lys Thr Met Tyr Leu Glu Asp Gly Thr Ile Gly Leu Arg Leu Trp
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87     Asp Thr Ala Gly Gln Glu Arg Leu Arg Ser Leu Ile Pro Arg Tyr Ile
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89     cgt gat tct gct gca gct gta gta gtt tac gat atc aca aat gtt aac      344
90     Arg Asp Ser Ala Ala Ala Val Val Val Tyr Asp Ile Thr Asn Val Asn
91         85                90                95
92     tca ttc cag caa act aca aag tgg att gat gat gtc aga aca gaa aga      392
93     Ser Phe Gln Gln Thr Thr Lys Trp Ile Asp Asp Val Arg Thr Glu Arg
94     100                105                110                115

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/441,857

DATE: 12/10/1999
TIME: 10:09:05

Input Set: I441857.RAW

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97              120                      125                      130
98      gac aag agg caa gtg tca gtt gag gag gga gag agg aaa gcc aaa ggg      488
99      Asp Lys Arg Gln Val Ser Val Glu Glu Gly Glu Arg Lys Ala Lys Gly
100             135                      140                      145
101     ctg aat gtt acg ttt att gaa act agg gca aaa act gga tac aat gta      536
102     Leu Asn Val Thr Phe Ile Glu Thr Arg Ala Lys Thr Gly Tyr Asn Val
103             150                      155                      160
104     aag cag ctc ttt cga cgt gta gca gca gct ttg ccg g      573
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129     <222> LOCATION: 48..809
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133                                     1
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135     Gly Gly Asp Phe Gly Asn Pro Leu Arg Lys Phe Lys Leu Val Phe Leu
136             5                      10                      15
137     ggg gag caa agc gtt gca aag aca tct ttg atc acc aga ttc agg tat      152
138     Gly Glu Gln Ser Val Ala Lys Thr Ser Leu Ile Thr Arg Phe Arg Tyr
139             20                      25                      30                      35
140     gac agt ttt gac aac acc tat cag gca ata att ggc att gac ttt tta      200
141     Asp Ser Phe Asp Asn Thr Tyr Gln Ala Ile Ile Gly Ile Asp Phe Leu
142             40                      45                      50
143     tca aaa act atg tac ttg gag gat gga aca atc ggg ctt cgg ctg tgg      248
144     Ser Lys Thr Met Tyr Leu Glu Asp Gly Thr Ile Gly Leu Arg Leu Trp

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/441,857

DATE: 12/10/1999
TIME: 10:09:05

Input Set: I441857.RAW

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148		70		75		80		
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150	Arg Asp Ser Ala Ala Ala Val Val Val Tyr Asp Ile Thr Asn Val Asn							
151		85		90		95		
152	tca ttc cag caa act aca aag tgg att gat gat gtc aga aca gaa aga							392
153	Ser Phe Gln Gln Thr Thr Lys Trp Ile Asp Asp Val Arg Thr Glu Arg							
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155	gga agt gat gtt atc atc acg cta gta gga aat aga aca gat ctt gct							440
156	Gly Ser Asp Val Ile Ile Thr Leu Val Gly Asn Arg Thr Asp Leu Ala							
157		120		125		130		
158	gac aag agg caa gtg tca gtt gag gag gga gag agg aaa gcc aaa ggg							488
159	Asp Lys Arg Gln Val Ser Val Glu Glu Gly Glu Arg Lys Ala Lys Gly							
160		135		140		145		
161	ctg aat gtt acg ttt att gaa act agg gca aaa act gga tac aat gta							536
162	Leu Asn Val Thr Phe Ile Glu Thr Arg Ala Lys Thr Gly Tyr Asn Val							
163		150		155		160		
164	aag cag ctc ttt cga cgt gta gca gca gct ttg ccg gga atg gaa agc							584
165	Lys Gln Leu Phe Arg Arg Val Ala Ala Ala Leu Pro Gly Met Glu Ser							
166		165		170		175		
167	aca cag gac gga agc aga gaa gac atg agt gac ata aaa ctg gaa aag							632
168	Thr Gln Asp Gly Ser Arg Glu Asp Met Ser Asp Ile Lys Leu Glu Lys							
169		180		185		190		195
170	cct cag gag caa aca gtc agc gaa ggg ggt tgt tcc tgc tac tct ccc							680
171	Pro Gln Glu Gln Thr Val Ser Glu Gly Gly Cys Ser Cys Tyr Ser Pro							
172		200		205		210		
173	atg tca tct tca acc ctt cct cag aag ccc cct tac tct ttc att gac							728
174	Met Ser Ser Ser Thr Leu Pro Gln Lys Pro Pro Tyr Ser Phe Ile Asp							
175		215		220		225		
176	tgc agt gtg aat att ggc ttg aac ctt ttc cct tca tta ata acg ttt							776
177	Cys Ser Val Asn Ile Gly Leu Asn Leu Phe Pro Ser Leu Ile Thr Phe							
178		230		235		240		
179	tgc aat tca tca ttg ctg cct gtc tcg tgg aga tgatctatta gcttgacaag							829
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193		1		5		10		15
194	gtg ttc ctg ggg gag caa agc gtt gca aag aca tct ttg atc acc aga							96

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/441,857

DATE: 12/10/1999
TIME: 10:09:05

Input Set: I441857.RAW

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199              35              40              45
200      gac ttt tta tca aaa act atg tac ttg gag gat gga aca atc ggg ctt      192
201      Asp Phe Leu Ser Lys Thr Met Tyr Leu Glu Asp Gly Thr Ile Gly Leu
202              50              55              60
203      cgg ctg tgg gat acg gcg ggt cag gaa cgt ctc cgt agc ctc att ccc      240
204      Arg Leu Trp Asp Thr Ala Gly Gln Glu Arg Leu Arg Ser Leu Ile Pro
205              65              70              75              80
206      agg tac atc cgt gat tct gct gca gct gta gta gtt tac gat atc aca      288
207      Arg Tyr Ile Arg Asp Ser Ala Ala Ala Val Val Val Tyr Asp Ile Thr
208              85              90              95
209      aat gtt aac tca ttc cag caa act aca aag tgg att gat gat gtc aga      336
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211              100              105              110
212      aca gaa aga gga agt gat gtt atc atc acg cta gta gga aat aga aca      384
213      Thr Glu Arg Gly Ser Asp Val Ile Ile Thr Leu Val Gly Asn Arg Thr
214              115              120              125
215      gat ctt gct gac aag agg caa gtg tca gtt gag gag gga gag agg aaa      432
216      Asp Leu Ala Asp Lys Arg Gln Val Ser Val Glu Glu Gly Glu Arg Lys
217              130              135              140
218      gcc aaa ggg ctg aat gtt acg ttt att gaa act agg gca aaa act gga      480
219      Ala Lys Gly Leu Asn Val Thr Phe Ile Glu Thr Arg Ala Lys Thr Gly
220              145              150              155              160
221      tac aat gta aag cag ctc ttt cga cgt gta gca gca gct ttg ccg gga      528
222      Tyr Asn Val Lys Gln Leu Phe Arg Arg Val Ala Ala Ala Leu Pro Gly
223              165              170              175
224      atg gaa agc aca cag gac gga agc aga gaa gac atg agt gac ata aaa      576
225      Met Glu Ser Thr Gln Asp Gly Ser Arg Glu Asp Met Ser Asp Ile Lys
226              180              185              190
227      ctg gaa aag cct cag gag caa aca gtc agc gaa ggg ggt tgt tcc tgc      624
228      Leu Glu Lys Pro Gln Glu Gln Thr Val Ser Glu Gly Gly Cys Ser Cys
229              195              200              205
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231      Tyr Ser Pro Met Ser Ser Ser Thr Leu Pro Gln Lys Pro Pro Tyr Ser
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235              225              230              235              240
236      ata acg ttt tgc aat tca tca ttg ctg cct gtc tcg tgg aga      762
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241      <212> TYPE: PRT
242      <213> ORGANISM: Homo sapiens
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PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/441,857

DATE: 12/10/1999
TIME: 10:09:05

Input Set: I441857.RAW

Line ? Error/Warning

Original Text

Input Set: I441857.RAW

PREVIOUSLY ERRORED SEQUENCES-EDITED

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4  <213> Homo sapiens
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6  <221> CDS
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16      gcaggggccc agagagctcg gtgcccgcct tccgctcgc ctttttcgtc agctggctgg      360
17      agcagcatcg gtccgggagg tctctaggct gaggcggcgg ccgctcctct agttccaca      419
18      atg tcc acg ggc gga gac ttc ggg aat ccg ctg agg aaa ttc aag ctg      467
19      Met Ser Thr Gly Gly Asp Phe Gly Asn Pro Leu Arg Lys Phe Lys Leu
20      1          5          10          15
21      gtg ttc ctg ggg gag caa agc gtt gga aag aca tct ttg atc acc aga      515
22      Val Phe Leu Gly Glu Gln Ser Val Gly Lys Thr Ser Leu Ile Thr Arg
23      20          25          30
24      ttc atg tat gac agt ttt gac aac acc tat cag gca aca att ggc att      563
25      Phe Met Tyr Asp Ser Phe Asp Asn Thr Tyr Gln Ala Thr Ile Gly Ile
26      35          40          45
27      gac ttt tta tca aaa act atg tac ttg gag gat cga aca atc agg ctt      611
28      Asp Phe Leu Ser Lys Thr Met Tyr Leu Glu Asp Arg Thr Ile Arg Leu
29      50          55          60
30      cag ctg tgg gat act gcg ggt cag gaa cgt ttc cgt agc ctc att ccc      659
31      Gln Leu Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Ser Leu Ile Pro
32      65          70          75          80
33      agt tac atc cgt gat tct gct gca gct gta gta gtt tac gat atc aca      707
34      Ser Tyr Ile Arg Asp Ser Ala Ala Ala Val Val Val Tyr Asp Ile Thr
35      85          90          95
36      aat gtt aac tca ttc cag caa act aca aag tgg att gat gat gtc aga      755
37      Asn Val Asn Ser Phe Gln Gln Thr Thr Lys Trp Ile Asp Asp Val Arg
38      100          105          110
39      aca gaa aga gga agt gat gtt atc atc atg cta gta gga aat aaa aca      803
40      Thr Glu Arg Gly Ser Asp Val Ile Ile Met Leu Val Gly Asn Lys Thr
41      115          120          125
42      gat ctt gct gac aag agg caa gtg tca att gag gag gga gag agg aaa      851
43      Asp Leu Ala Asp Lys Arg Gln Val Ser Ile Glu Glu Gly Glu Arg Lys
44      130          135          140
45      gcc aaa gag ctg aat gtt atg ttt att gaa act agt gca aaa gct gga      899
46      Ala Lys Glu Leu Asn Val Met Phe Ile Glu Thr Ser Ala Lys Ala Gly
47      145          150          155          160

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/441,857DATE: 12/10/1999
TIME: 10:09:05

Input Set: I441857.RAW

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54	ctg gaa aag cct cag gag caa cca gtc agt gaa gga ggc tgt tcc tgc	1043
55	Leu Glu Lys Pro Gln Glu Gln Pro Val Ser Glu Gly Gly Cys Ser Cys	
56	195 200 205	
57	taatctccca tgtcatcttc aaccttcttc agaagctcac tgctttggcc cccttactct	1103
58	ttcattgact gcagtgtgaa tattggcttg aaccttttcc cttcagtaat aacgtattgc	1163
59	aattcatcat tgctgcctgt ctctgggaga tgatctatta gcttcacaag cacaacaaaa	1223
60	gtcagtgctc tcattattta tttttacaa aaagccaaaa tatttcagca tattccagt	1283
61	ataactttaa aaattagata cattttctta acattttttt cttttttaat gttatgataa	1343
62	tgtacttcaa aatgatggaa atctcaacag tatgagtatg gcttgggtta cgagcggtat	1403
63	gttcacagcc tactttatct ctcttgctt ttctcacctc tcacttacc ggaattc	1460

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/441,857

DATE: 12/09/1999
TIME: 15:11:06

Input Set: I441857.RAW

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

Does Not Comply
Corrected Diskette Needed

1 <110> Duffy, Hao-Peng Xu
2 Shan, Ji-dong
3 Yuan, Li-ming
4 Dudman, Daniel
5 Calabro, Anthony
6 <120> Identification of Differentially Methylated
7 Multiple Drug Resistance Loci
8 <130> 52494/2202
9 <140> US/09/441,857
10 <141> 1999-11-18
11 <150> US 60/108,994
12 <151> 1998-11-08
13 <160> 46
14 <170> WordPerfect 8.0 for Windows

ERRORED SEQUENCES FOLLOW

15 <210> 25
16 <211> 1460
17 <212> DNA
18 <213> Homo sapiens
19 <220>
20 <221> CDS
21 <222> 420..1043
22 <220>
23 <223> cDNA (composite of multiple cDNA clones)
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27 agggaacggc cctagctttg ggaagccaga ggacaccctt ggctcctgcc gacaccgccc 180
28 tccttccctt ccagcccgcg ggctcgtctc ggtgctaggc tactctgccg ggaggcggcg 240
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32 atg tcc acg ggc gga gac ttc ggg aat ccg ctg agg aaa ttc aag ctg 467
33 Met Ser Thr Gly Gly Asp Phe Gly Asn Pro Leu Arg Lys Phe Lys Leu
34 1 5 10 15
35 gtg ttc ctg ggg gag caa agc gtt gga aag aca tct ttg atc acc aga 515
36 Val Phe Leu Gly Glu Gln Ser Val Gly Lys Thr Ser Leu Ile Thr Arg
37 20 25 30
38 ttc atg tat gac agt ttt gac aac acc tat cag gca aca att ggc att 563
39 Phe Met Tyr Asp Ser Phe Asp Asn Thr Tyr Gln Ala Thr Ile Gly Ile

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/441,857

DATE: 12/09/1999
TIME: 15:11:06

Input Set: I441857.RAW

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43	50 55 60			
44	cag ctg tgg gat act gcg ggt cag gaa cgt ttc cgt agc ctc att ccc	659		
45	Gln Leu Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Ser Leu Ile Pro			
46	65 70 75 80			
47	agt tac atc cgt gat tct gct gca gct gta gta gtt tac gat atc aca	707		
48	Ser Tyr Ile Arg Asp Ser Ala Ala Val Val Tyr Asp Ile Thr			
49	85 90 95			
50	aat gtt aac tca ttc cag caa act aca aag tgg att gat gat gtc aga	755		
51	Asn Val Asn Ser Phe Gln Gln Thr Thr Lys Trp Ile Asp Asp Val Arg			
52	100 105 110			
53	aca gaa aga gga agt gat gtt atc atc atg cta gta gga aat aaa aca	803		
54	Thr Glu Arg Gly Ser Asp Val Ile Ile Met Leu Val Gly Asn Lys Thr			
55	115 120 125			
56	gat ctt gct gac aag agg caa gtg tca att gag gag gga gag agg aaa	851		
57	Asp Leu Ala Asp Lys Arg Gln Val Ser Ile Glu Gly Glu Arg Lys			
58	130 135 140			
59	gcc aaa gag ctg aat gtt atg ttt att gaa act agt gca aaa gct gga	899		
60	Ala Lys Glu Leu Asn Val Met Phe Ile Glu Thr Ser Ala Lys Ala Gly			
61	145 150 155 160			
62	tac aat gta aag cag ctc ttt cga cgt gta gca gca gct ttg ccg gga	947		
63	Tyr Asn Val Lys Gln Leu Phe Arg Arg Val Ala Ala Leu Pro Gly			
64	165 170 175			
65	atg gaa agc aca cag gac aga agc aga gaa gat atg att gac ata aaa	995		
66	Met Glu Ser Thr Gln Asp Arg Ser Arg Glu Asp Met Ile Asp Ile Lys			
67	180 185 190			
68	ctg gaa aag cct cag gag caa cca gtc agt gaa gga ggc tgt tcc tgc	1043		
69	Leu Glu Lys Pro Gln Glu Gln Pro Val Ser Glu Gly Gly Cys Ser Cys			
70	195 200 205			
71	taatctccca tgtcatcttc aaccttcttc agaagctcac tgctttggcc cccttactct	1103		
72	ttcattgact gcagtgtgaa tattggcttg aaccttttcc cttcagtaat aacgtattgc	1163		
73	aattcatcat tgctgcctgt ctctgtggaga tgatctatta gcttcacaag cacaacaaaa	1223		
74	gtcagtgtct tcattattta tattttacaa aaagccaaaa tatttcagca tattccagtg	1283		
E--> 75	ataacttttaa aaattagata cattttctta acattttttt cttttttaat gttatgataa	1243	1343	
76	tgtacttcaa aatgatggaa atctcaacag tatgagtatg gcttggttaa cgagcggat	1403		
77	gttcacagcc tactttatct ctcttgctt ttctcacctc tcacttacc ggaattc	1460		

p>E: 3

VERIFICATION SUMMARY
PATENT APPLICATION US/09/441,857

DATE: 12/09/1999
TIME: 15:11:06

Input Set: I441857.RAW

Line ? Error/Warning

Original Text

75 E Number of Bases conflict w/ Running Total ataactttaaa aaattagata cattttctta acattttt